VITA

ANDREW VANO

DEGREES

B.S., Aeronautical Eng., Univ. of Minnesota, 1962.

EXPERIENCE

1991 - Present: Akerman Professor
Aerospace Engineering and Mechanics, University of Minnesota
1989 - 1990: Adjunct Professor (part-time)
Aerospace Engineering and Mechanics, University of Minnesota
1983: Adjunct Professor (part-time)
Aerospace Engineering and Mechanics, University of Minnesota
1986 - present: Chief Engineer
Bellanca Inc, Alexandria, MN
1984 - 1986: Aerospace Engineer
NASA Ames Dryden Flight Research Facility, Edwards AFB, CA
1981 - 1983: Chief Engineer
Eagle Aircraft Company, Alexandria, MN
1980-present: Chief Engineer
Vanotech Aerospace Consulting, Carlos, MN
1974 - 1981: Chief Engineer
Bellanca Aircraft Corp., Alexandria, MN
1963 - 1973: Aerospace Engineer
NASA Flight Research Ctr, Edwards AFB, CA

PATENTS

"Quick Attach Mechanism", Patent No. 3,378,892, NASA Aerial Recovery Operations.

PROFESSIONAL REGISTRATIONS

FAA Designated Engineering Representative (DER) in following disciplines: Structures, Systems and Equipment, Powerplant Installations, Flight Analyst, Test Pilot (5000 hours).

PRINCIPAL PUBLICATIONS

"Analysis and Testing Nose Landing Gear Drag Brace Bracket's", Bellanca Inc Engineering Report for FAA Investigation, June 1995.

"Teledyne Continental IO-550 Engine Installation", Bellanca Inc Engineering Report for FAA Certification new engine installation, August 1996.

"Airline Economic Feasibility for a Mach 4 Transport" UM/NWA study for NASA LaRC, April 1996.

"Structural Loads Flight Test Results," AFTI-F111 Mission Adaptive Wing Briefing to Industry, November 1989.

"A Cargo Return Vehicle for the Space Station," AIAA Aircraft Design Systems and Operations Conference paper, September 1990.

"Using the Project Environment to Teach Design in the Engineering Classroom," AIAA Aerospace Design Conference paper, February 1992.

SCIENTIFIC AND PROFESSIONAL SOCIETIES

Associate Fellow, American Institute of Aeronautics and Astronautics

Air Recreational Vehicle Committee, Experimental Aircraft Association, 1978-79.

Technical Policy Comittee, General Aviation Manufacturers Association, 1974-81.

Aircraft Owners and Pilots Association

Experimental Aircraft Association

Planetary Society

HONORS AND AWARDS

NASA AFTI/F-111 Mission Adaptive Wing Flight Test Team Group Achievement Award, 1988.
NASA Quality Increase for Outstanding Performance, 1985.
NASA Special Achievement Award For AFTI/F-111 Mission Adaptive Wing Flight Loads Measurement Program, 1984.
AIAA Twin City Section Student Lecture Award, 1983-84.
NASA YF-12 Thermal Loads Calibration Team Group Achievement Award,1973.
NASA Lifting Body Flight Research Team Group Achievement Award, 1970.
AIAA Antelope Valley Section Outstanding Technical Contribution Award for Photographic Flight Deflection Measuring System, 1970.
NASA Special Achievement Award for Photographic Flight Deflection Measuring System, 1970.
NASA Apollo Group Achievement Award.
NASA X-15 Group Achievement Award.
NASA Tech-brief Award for "Quick Attach Mechanism", 1968.

ACADEMIC COURSES TAUGHT

Undergraduate
AEM 5329--Fundamentals of Aircraft Design
AEM 5330--Design of Aerospace Elements and Systems
AEM 5331--Design of Aerospace Elements and Systems

Undergraduate/Graduate
AEM 5800--Problems in Mechanics and Materials
AEM 5801--Problems in Mechanics and Materials

AEM 5802--Problems in Mechanics and Materials
AEM 5810--Problems in Fluid Mechanics
AEM 5811--Problems in Fluid Mechanics
AEM 5812--Problems in Fluid Mechanics
AEM 5838, 39--Summer Engineering Employment
AEM 5840, 41, 42 & 43--Industrial Assignment